Adding & Subtraction Fractions & Mixed Numbers – BLUE

**Do the following questions from Signpost Chapter 11** Section 11:05 #2, 7, & 8

**Answer the following questions in your notebook. Show your work.**

1. 8 pails of water can fill  of a container. Another 4 pails and 5 tins of water are required to fill the container to the top. How many tins of water can be used to fill the empty container completely?
2. After Darren had spent  of his money and Winston  of his, each of them had $240 left. What was the original sum of money each of them had?
3. After spending  of his money on a briefcase and  of his remaining money on a belt, Justin had $35 How much did he spend in all?
4. Glenn spent $273 on a bag. He then spent  of his remaining money on a shirt. If he still had  of his money left, how much did he have at first?
5. Monica spent  of her money to buy 12 T-shirts and 4 pairs of socks. The cost of one pair of socks was  that of a T-shirt. Then Monica used the rest of her money to buy 3 more pairs of socks and some T-shirts. How many T-shirts did she buy altogether?
6. Kayla beaded some bracelets. She gave Shannon  of her bracelets and  of the remainder to Joanne. Joanne received 24 more bracelets than Shannon. How many bracelets did Kayla bead?
7.  of the children in the music hall are boys. If there are 84 more girls than boys in the music hall, many children are there altogether?
8. Julie bought some biscuits. Her sons received  of them and her daughters  of the remaining biscuits. If Julie had 32 biscuits left, how many biscuits did she buy at first?

**Blue Homework Solutions**

1. If 8 pails equals , then 4 pails equals . The remaining amount of water in the container is then equal to 5 tins. . So if 5 tins equals of the container 5 x 6 = 30 tins. **30 tins will fill the container completely.**
2. If Darren had spent  and still had $240 left, that means that the remaining money $240 is equal to . If we divide $240 by 3 we can find out that . $240 + $80 = $320. **Darren had $320** **in the beginning**. The same procedure can be used to find the total amount that Winston had which would be $240 ÷ 2 = $120. $120 + $240 = $360. **Winston had $360 in the beginning.**
3. If  of the money was spent on a briefcase, then  of the money is remaining. Of that ,  was spent on a belt. So we need to find out what is of . Remember “of” means multiply So  of the total money was spent on the belt and was spent on the brief case so of the money was spent and . Therefore $35 ÷ 5 = $7, then 4 x $7 = $28. **$28 was spent on a briefcase and belt.**
4. The question states that of the remaining money was spent on a shirt and of the money was left. So that would mean that 6 units of the remaining money equals to . So  = 2 units (6 units ÷ 3 = 2 units). The bag and the shirt equals of the money spent. If the bag is only equal to one unit, then the bag equals 3 units (2 x 2 units = 4 units). If the bag costs $273 and equals to 3 units, then . There are 10 units in total (5 x 2 units = 10 units), soothe total amount of money in the beginning is **$910.**
5. From the question we know that the cost of a T-shirt is 4 times that of the cost of a pair of socks. So  which means that  of Monica’s money can buy 52 pairs of socks. Now we need to know how many pairs of socks can Monica buy with the remainder of her money. pairs of socks. We know that she bought 3 more pairs of socks with her remaining money and some t-shirts. If we subtract the number of socks from 39 and divide that by 4 (how much more a t-shirt costs than a sock) we then know the number of t-shirts she bought with her remaining money. 39 – 3 = 36. 36 ÷ 4 = 9. She bought 9 t-shirts with the remaining money. Add that to what she bought before, which was 12 and we have a total of **21 t-shirts** **that Monica bought.**
6. If Kayla gave of the bracelets to Shannon, thenremained. Of that  she gave  to Joanne, so we need to find of  which equals to . The difference between  and is  which equals the 24 more bracelets Joanne has than Shannon. So of those bracelets equals to 12 bracelets. 5 x 12 = **60 total number of bracelets.**
7. If  is the total number of boys, then the total number of girls in the hall is . The difference between the number of boys and girls is 84 which equals . Therefore equals 28 students and 11 x 28 = **308 total number of students.**
8. Julie’s daughters ate  of the remaining  of biscuits after her sons ate . is the total amount of the biscuits that the daughters ate. If we add that to the amount that her sons ate we know that they ate of the biscuits leaving 32 biscuits. 32 ÷ 4 = 8, 8 x 15 = **120 total number of biscuits.**